Development of Dobhighat in Ward No.01

Quality Control Abstract

Work Order No.: EE(Project)/Ynk/Zone/WO/83/2020-21 Dated 17-08-2020

Job code: 001-20-000007

Est. cost: 100.00 lakhs

Name Of contractor: Sri H V Onkarappa.

Sl No.	Description of Materials	Test	No of Units Tested	No of samples conducted	Test result	Remarks
1	Cement	IS: 12269-1987	Per Batch	Per Batch	Satisfactory	-
2	Fine Aggregates	IS: 383-1970	Per Batch	Per Batch	Satisfactory	
3	Course Aggregates	As per Morth	Per Batch	Per Batch	Satisfactory	
4	Steel TMT	IS: 1876:2008, IS 1608:2005,IS1599:1985	Per Batch	Per Batch	Satisfactory	-
5	M20 Concrete	Compressive Strength (IS 516-1959)	84	84	Satisfactory	-
6	Solid Blocks	Compressive Strength	12	12	Satisfactory	-

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/DOBI/Cement

Date: 02/12/2022

1. Test report on cement:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	141 Min	Shall Not be less than 30 Min
2.	Final Setting Time	280 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.80 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.10 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	28.40 N/Sqmm	Shall not be less than 27 N /Sq mm

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NO: YEL-P/PMC/DOBI/Cement

Date: 05/01/2023

1. Test report on cement:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	153 Min	Shall Not be less than 30 Min
2.	Final Setting Time	301 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	2.00%	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.00 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	30.50 N/Sqmm	Shall not be less than 27 N /Sq mm

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NO: YEL-P/PMC/DOBI/Cement

Date: 08/02/2023

1. Test report on Cement:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	155 Min	Shall Not be less than 30 Min
2.	Final Setting Time	273 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.95 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.10 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	28.50 N/Sqmm	Shall not be less than 27 N /Sq mm

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Date: 02/12/2022

NO: YEL-P/PMC/DOBI /Cou Agg

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	**---**	-
22.40	**79.25**	60-80
11.20	**53.40**	40-60
4.75	**36.15**	25-40
2.36	**24.60**	15-30
0.600	**19.35**	8-22
0.075	**3.85**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.85%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.20%**	Not more than 35.0 %
3.	Water absorption, %	**0.45 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: YEL-P/PMC/DOBI /Cou Agg

Date: 05/01/2023

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.60%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**29.70 %**	Not more than 35.0 %
3.	Water absorption, %	**0.46 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/DOBI /Fine Agg

Date: 02/12/2022

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	16.80%	NA
2.	Silt Content	-	.70%	Not more than 8%
3.	Specific Gravity	-	2.60	--

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SHRIYA CONSTRUCTION AND CONSULTANCY

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NO: YEL-P/PMC/DOBI /Fine Agg

Date: 05/01/2023

1.Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	18.00%	NA
2.	Silt Content	-	.65%	Not more than 8%
3.	Specific Gravity	-	2.85	--

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NO: YEL-P/PMC/DOBI /Fine Agg

Date: 08/02/2023

1.Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.00%	NA
2.	Silt Content	-	.67%	Not more than 8%
3.	Specific Gravity	-	2.50	--

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/DOBI /Footing

Date: 28/12/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength	Average Strength N/mm2
1	Building, and Compound Footing	21-12-2022	28-12-2022	8.20	7	360.00	16.00	15.56
2		"	"	8.10	"	390.00	17.33	
3		"	"	8.25	"	345.00	15.33	
4		"	"	8.30	"	325.00	14.44	
5		"	"	8.40	"	330.00	14.67	
6		"	"	8.15	"	350.00	15.56	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/DOBI /Footing

Date: 18/01/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength	Average Strength N/mm2
1	Building, and Compound Footing	21-12-2022	18-01-2023	8.40	28	590.00	26.22	25.33
2		"	"	8.00	"	560.00	24.89	
3		"	"	8.45	"	540.00	24.00	
4		"	"	8.25	"	560.00	24.89	
5		"	"	8.20	"	570.00	25.33	
6		"	"	8.15	"	600.00	26.67	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/DOBI /COL

Date: 01/01/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength	Average Strength N/mm2
1	Column Pedestal For Building and Compound Column Footing	25-12-2022	01-01-2023	8.30	7	360.00	16.00	17.19
2		"	"	8.20	"	390.00	17.33	
3		"	"	8.10	"	420.00	18.67	
4		"	"	8.20	"	400.00	17.78	
5		"	"	8.10	"	390.00	17.33	
6		"	"	8.00	"	360.00	16.00	

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NO: YEL-P/PMC/DOBI / COL

Date: 22/01/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength	Average Strength N/mm2
1	Column Pedestal For Building and Compound Column Footing	25-12-2022	22-01-2023	8.30	28	560.00	24.89	23.70
2		"	"	8.50	"	520.00	23.11	
3		"	"	8.40	"	500.00	22.22	
4		"	"	8.20	"	530.00	23.56	
5		"	"	8.30	"	550.00	24.44	
6		"	"	8.15	"	540.00	24.00	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/DOBI /Plinth

Date: 10/01/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength	Average Strength N/mm2
1	Plinth Concrete-Building and Compound Wall	03-01-2023	10-01-2023	8.20	7	380.00	16.89	15.67
2		"	"	8.30	"	360.00	16.00	
3		"	"	8.10	"	355.00	15.78	
4		"	"	8.30	"	320.00	14.22	
5		"	"	8.00	"	360.00	16.00	
6		"	"	8.10	"	340.00	15.11	

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NO: YEL-P/PMC/DOBI / Plinth

Date: 31/01/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength	Average Strength N/mm2
1	Plinth Concrete-Building and Compound Wall	03-01-2023	31-01-2023	8.15	28	540.00	24.00	23.67
2		"	"	8.55	"	560.00	24.89	
3		"	"	8.20	"	520.00	23.11	
4		"	"	8.30	"	560.00	24.89	
5		"	"	8.40	"	510.00	22.67	
6		"	"	8.20	"	505.00	22.44	

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NO: YEL-P/PMC/DOBI /Col

Date: 13/01/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M25**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength	Average Strength N/mm2
1	Columns - Compound wall and Building upto Lintel	06-01-2023	13-01-2023	8.03	7	425.00	18.89	18.65
2		"	"	8.20	"	407.40	18.11	
3		"	"	8.15	"	433.00	19.24	
4		"	"	8.30	"	407.40	18.11	
5		"	"	8.45	"	435.00	19.33	
6		"	"	8.30	"	410.00	18.22	

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NO: YEL-P/PMC/DOBI /Col

Date: 03/02/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M25**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength	Average Strength N/mm2
1	Columns - Compound wall and Building upto Lintel	06-01-2023	03-02-2023	8.12	28	600.00	26.67	26.68
2		"	"	8.36	"	610.00	27.11	
3		"	"	8.22	"	612.00	27.20	
4		"	"	8.20	"	525.00	23.33	
5		"	"	8.30	"	630.00	28.00	
6		"	"	8.45	"	625.00	27.78	

SHRIYA CONSTRUCTION AND CONSULTANCY

Asst. Executive Engineer
Project Division
Yelahanka
BBMP, Bangalore

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NO: YEL-P/PMC/DOBI /Lint

Date: 27/01/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work Development of Dobhighat in Ward No.01

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: M Sri H V Onkarappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M25**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	Compressive Strength	Average Strength N/mm2
1	Lintel and Staircase Concrete (Upto Midlanding)	20-01-2023	27-01-2023	8.20	7	440.00	19.56	18.26
2		"	"	8.30	"	430.00	19.11	
3		"	"	8.50	"	400.00	17.78	
4		"	"	8.45	"	410.00	18.22	
5		"	"	8.20	"	380.00	16.89	
6		"	"	8.00	"	405.00	18.00	

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